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I
MAGERY

A
NALYSIS

D
IVISION

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

STATUS OF NORTH VIETNAMESE RAILROADS

25X1

Declass Review by NIMA/DOD

Report No. 20
CIA/PIR 75070

DATE Dec. 1966

GROUP 1
Excluded from automatic
downgrading and declassification

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TITLE NPIC
PIR-75070 RPT#20

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CIA IMAGERY ANALYSIS DIVISION

PREFACE

This report summarizes significant items of photo intelligence relating to the North Vietnamese railroad system which has been developed from available photography (received by the CIA Imagery Analysis Division) during the period indicated on the cover. This report is intended to provide a comprehensive view of the railroad system and does not necessarily reflect the most recent status changes as reported by pilots' reports or field photo intelligence cables.

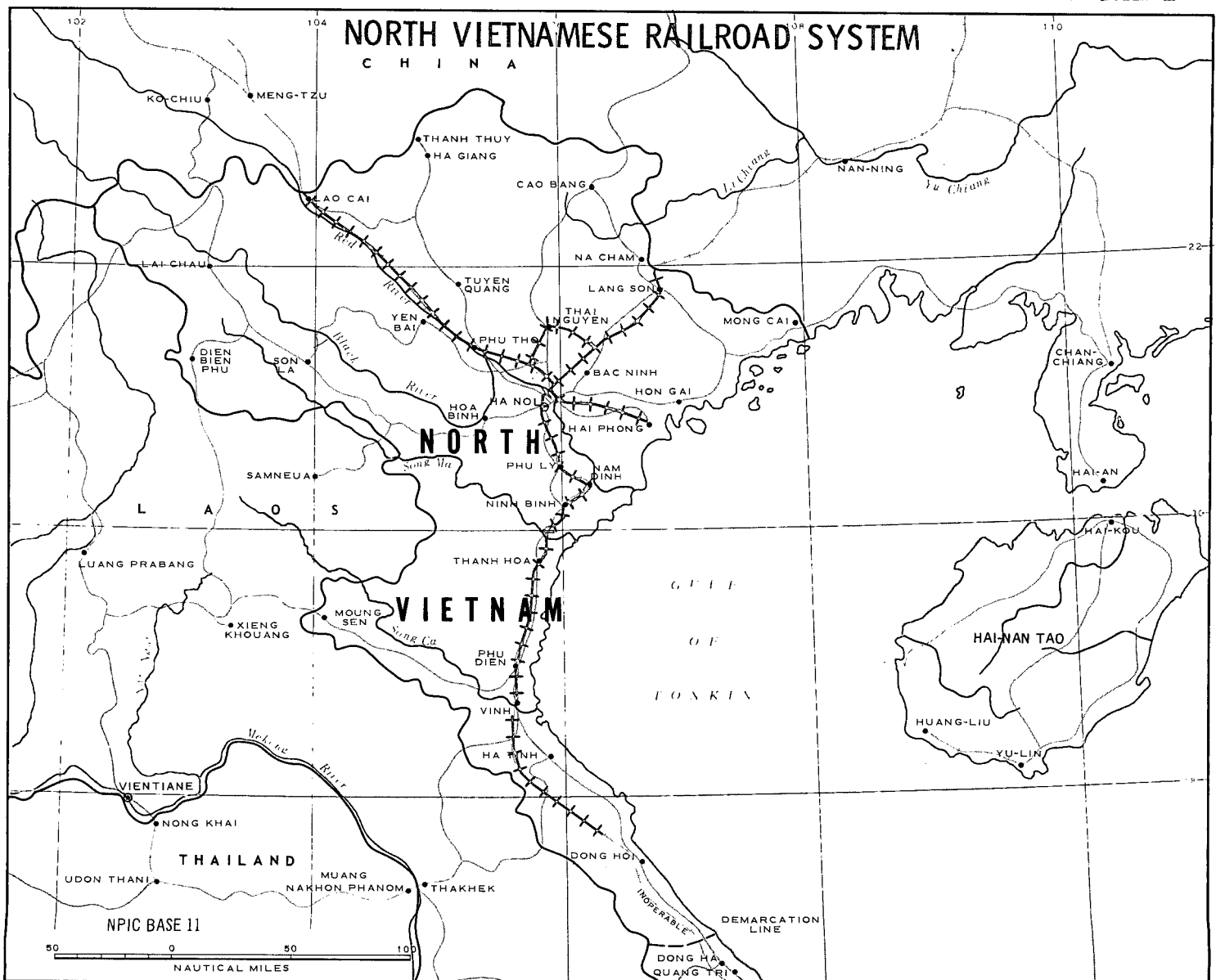
The railroad system has been broken down into 5 major lines: the Hanoi/Lao Cai Line, the Hanoi/Dong Dang Line, the Hanoi/Haiphong Line, the Hanoi/Dong Hoi Line and the Thai Nguyen Line (Figure I). Annotated maps and photos are used to show the status of each line.

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PIR 750725X1
FIGURE 1



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CIA IMAGERY ANALYSIS DIVISION

SUMMARY

One bridge interdiction was noted on the Hanoi/Lao Cai Rail Line and 6 unserviceable river crossings were observed on the Hanoi/Dong Hoi Rail Line. An assessment of the bridges, tunnels, and yards on the Thai Nguyen Rail Line is included in this report, due to recent opening of the rail line's eastern segment.

CONTENTS

Hanoi/Lao Cai Rail Line	Page 4
Hanoi/Dong Dang Rail Line	6
Hanoi/Dong Hoi Rail Line	7
Hanoi/Haiphong Rail Line	9
Thai Nguyen Rail Line	10

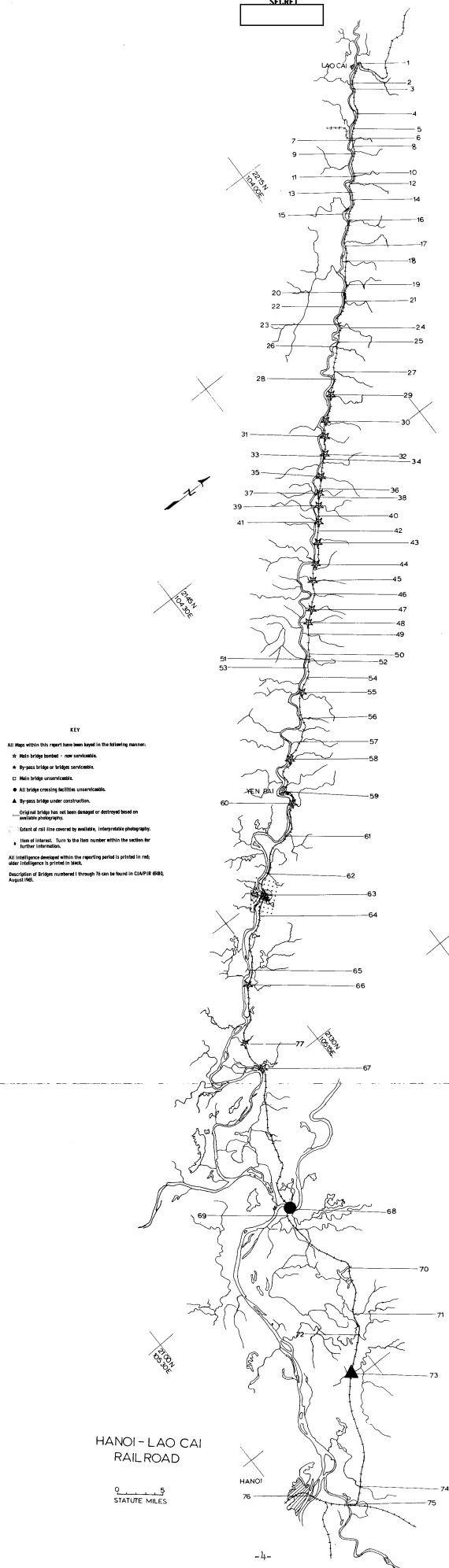
25X1

- 3 -

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FIGURE 2



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CIA IMAGERY ANALYSIS DIVISION

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ITEM OF INTEREST NO. 1: Hanoi/Lao Cai Rail Line

NAME: Lenh Khanh RR Bridge SE

BE:

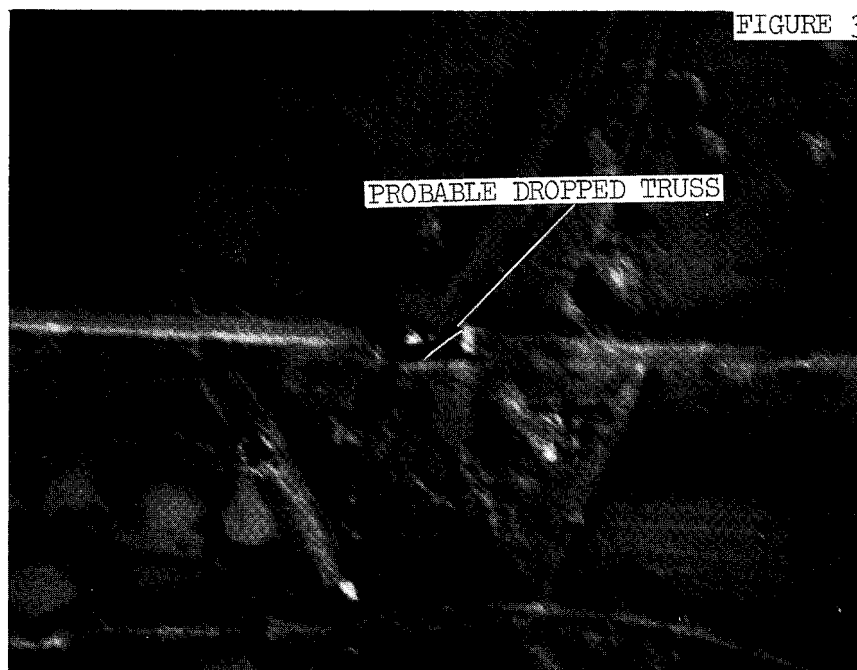
COORDINATES: 21 34N - 104 59E; VJ 991859

PHOTO REFERENCE:

MAP REFERENCE: JOG (A) 1501, NF 48-10

25X1

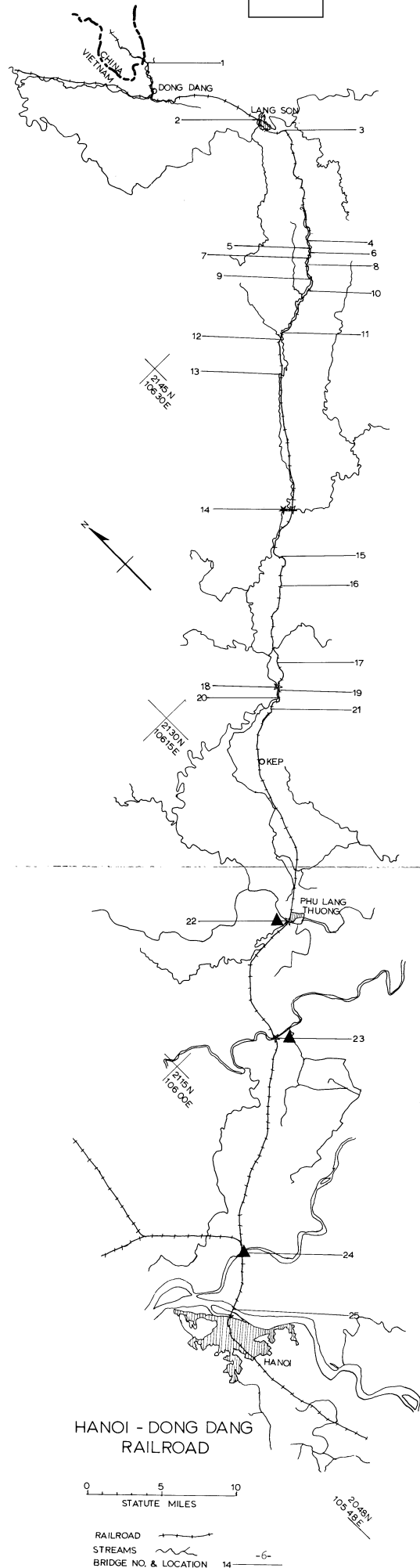
The single-span, probable half-through truss Lenh Khanh Railroad Bridge SE has been dropped from both abutments.



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FIGURE 4



KEY

- All maps within this report have been based on the following matter:
- Main bridge located - new construction.
 - Bypass bridge or bridge, non-usable.
 - Main bridge unusable.
 - All bridge crossing facilities unusable.
 - Bypass bridge under construction.
 - Original bridge has not been damaged or destroyed based on available photography.
 - 2 - General of all time control by available, interpretable photography.
 - * Item of interest. Turn to the item number within the section for further information.
- All intelligence damage within the reporting period is printed in red; older intelligence is printed in black.
- Description of bridges numbered 1 through 25 can be found in CIA PIR 0004, August 1965.

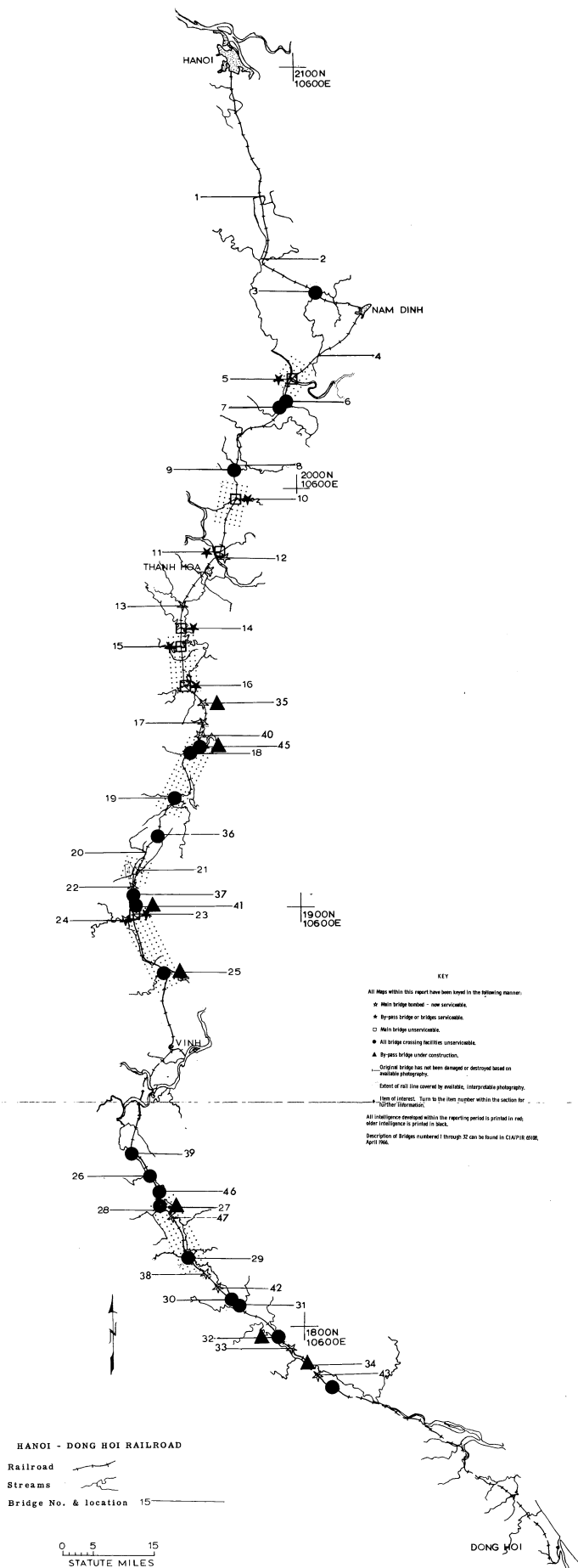
HANOI - DONG DANG
RAILROAD

0 5 10
STATUTE MILES

RAILROAD
STREAMS
BRIDGE NO. & LOCATION

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FIGURE 5

-7-

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CIA IMAGERY ANALYSIS DIVISION

ITEM OF INTEREST NO. 1: Hanoi/Dong Hoi Rail Line

NAME: Long Ngoc RR Bridge

BE:

COORDINATES: 19 04N - 105 35E, WG 628112

PHOTO REFERENCE:

25X1

MAP REFERENCE: OG (A) 1501, NE 48-3

A multi-span, deck-beam replacement bridge for the Long Ngoc Railroad Bridge has been constructed adjacent to the main bridge and is probably serviceable.

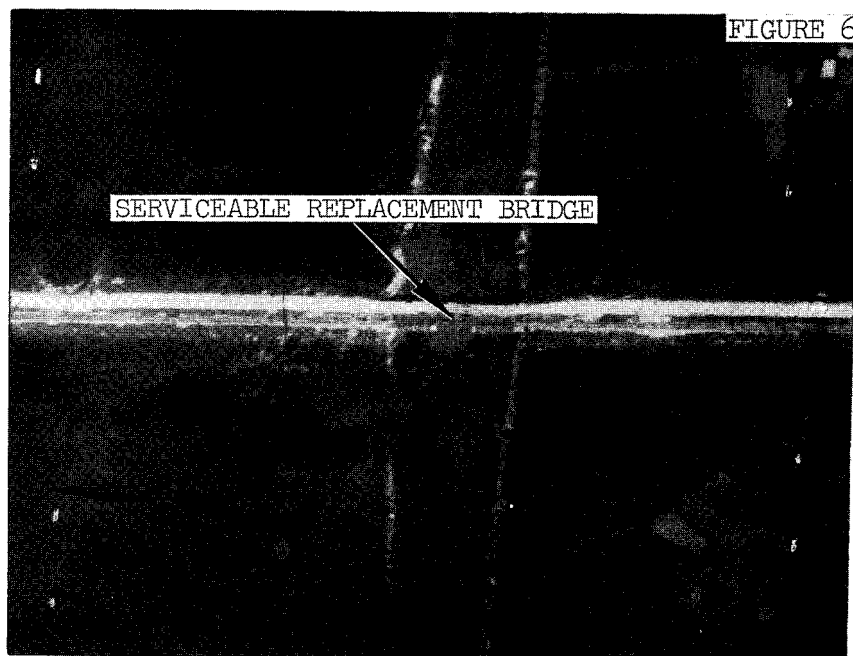


FIGURE 6

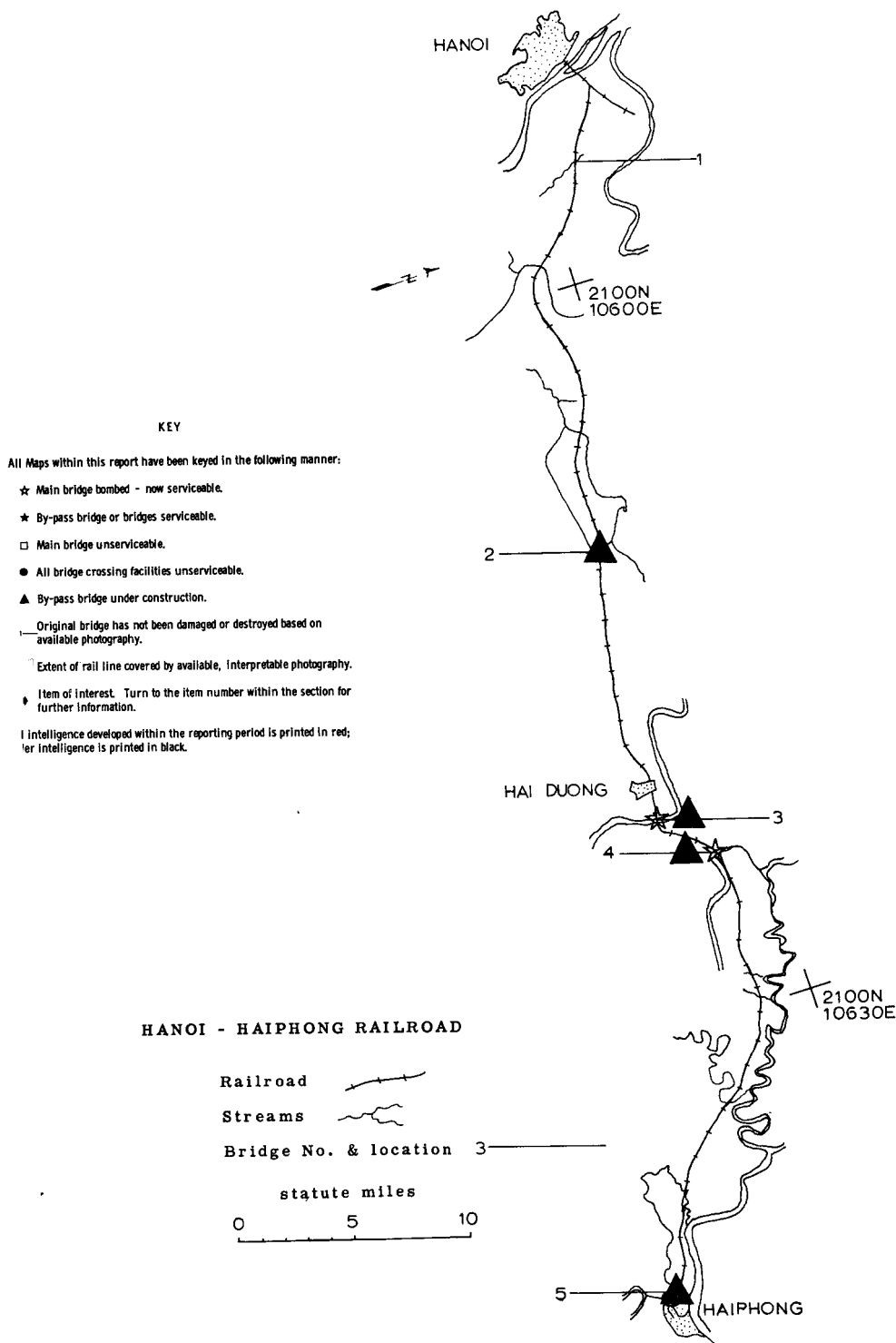
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25X1

PIR 75070
FIGURE 7



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CIA IMAGERY ANALYSIS DIVISION

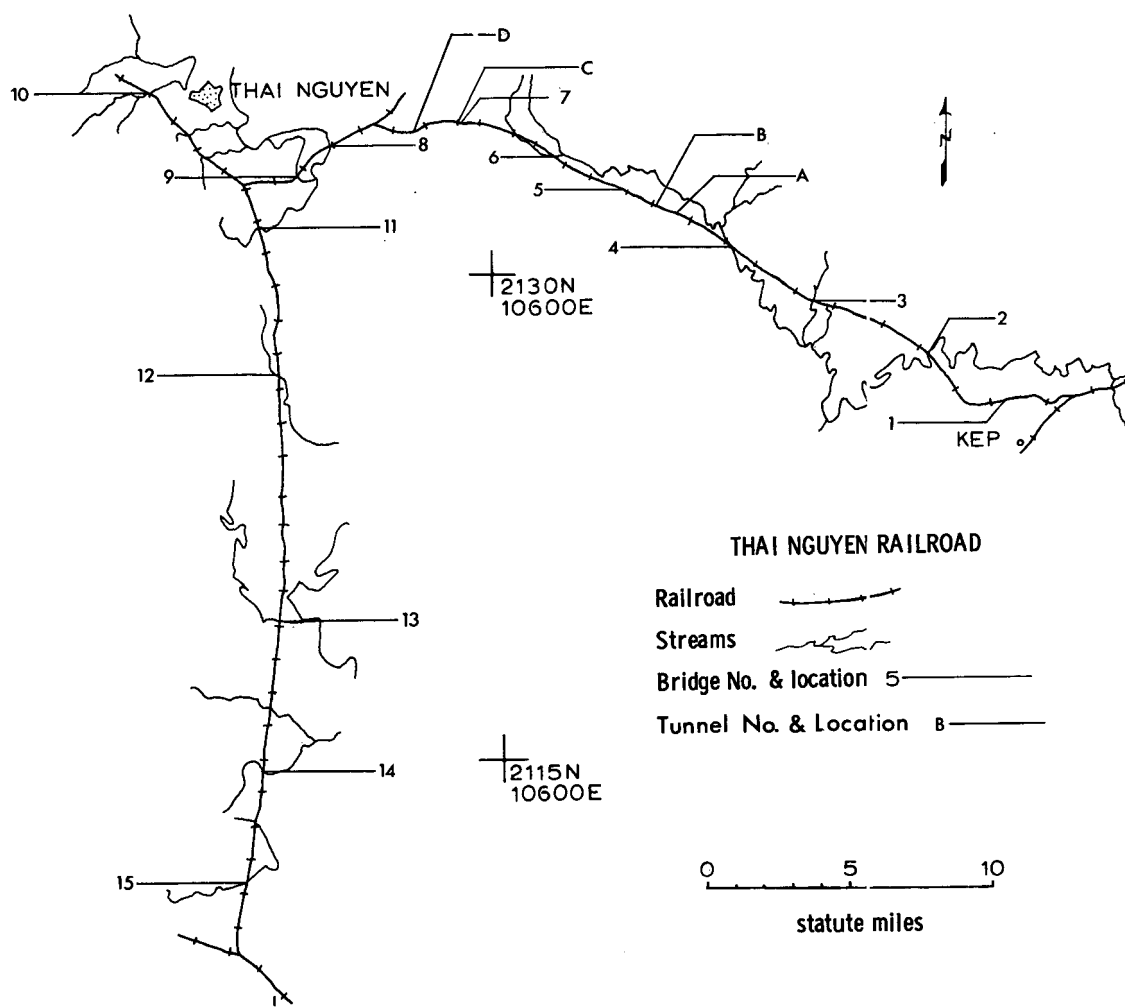
SUPPLEMENT

AN ACCESSMENT OF BRIDGES, TUNNELS, AND YARDS ON THE THAI NGUYEN RAIL LINE

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FIGURE 8

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CIA IMAGERY ANALYSIS DIVISION

THAI NGUYEN RAIL LINE

The recent opening of the Thai Nguyen-Kep Segment of the Thai Nguyen Rail Line significantly strengthens the North Vietnamese Railroad System. Rail traffic may now flow directly between China and the important Thai Nguyen industrial area. Despite the difference of gauge found within the rail line necessitating a transloading operation in the Thai Nguyen Area, rail traffic can also be shunted over this line between Dong Dang and Lao Cai, by-passing the critical rail junction at Yen Vien, immediately north of Hanoi.

For the purpose of this analysis the rail line has been divided into two segments and analyzed separately. Yard capacities have been computed on the basis of either meter or standard size freight cars [] 40' respectively), according to the gauge at the yard.

25X1

25X1

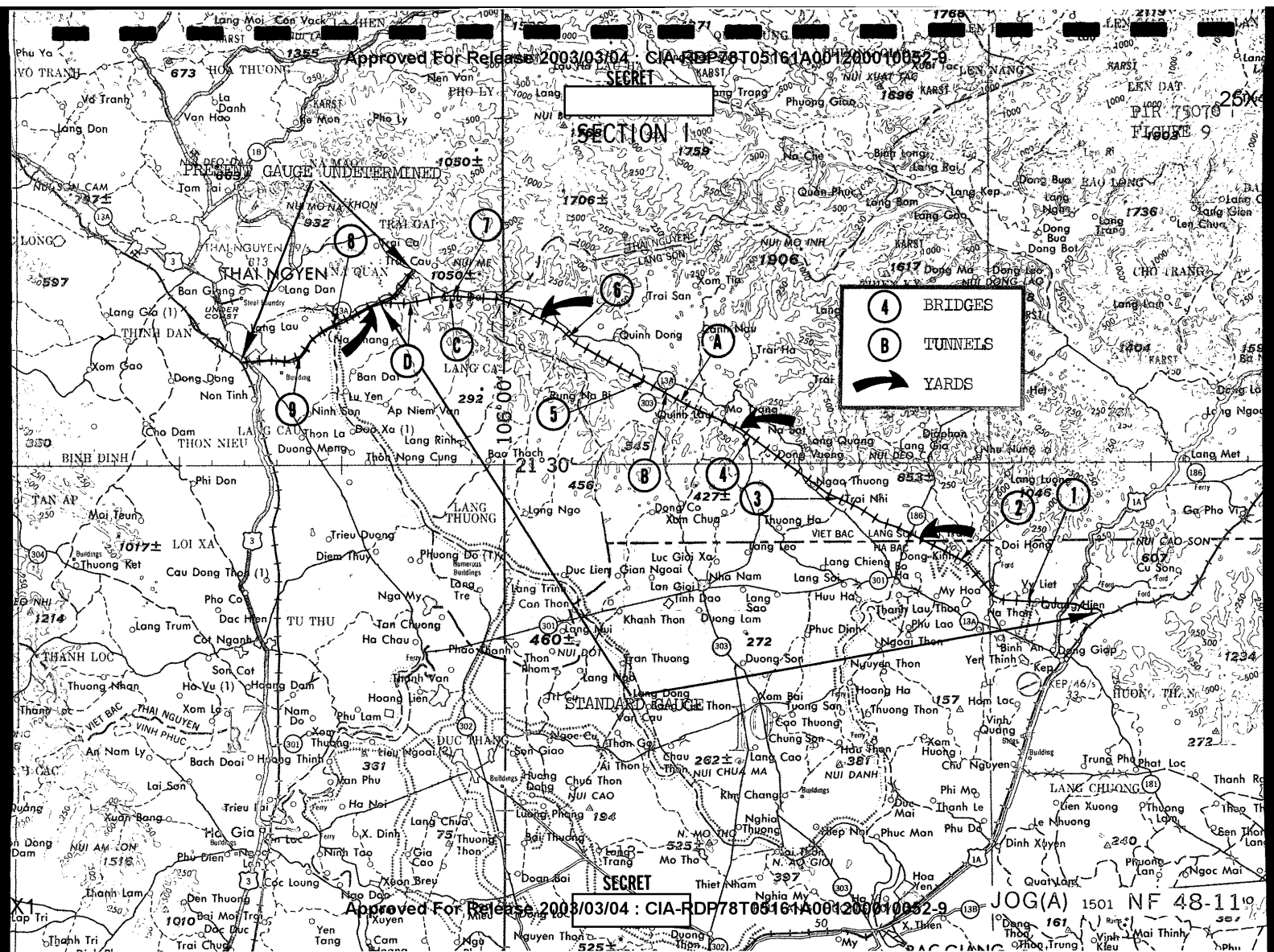
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25X1

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SECTION 1

FIGURE 9



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CIA IMAGERY ANALYSIS DIVISION

25X1

BRIDGE NO. 1

COORDINATES: 21 26N - 106 16E, XJ 315702

MAP REFERENCES: Series L7014, Sheet 6251 I

LOCATION: 0.2 nm SW of Quang Hien

LENGTH: 45' (approx.)

WIDTH: approx.)

TYPE: Deck

MATERIAL: Steel and Concrete

NO. OF SPANS: 1

LENGTH OF EACH SPAN: 45' (approx.)

25X1

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25X1

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FIGURE 10

-15-

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25X1

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FIGURE 11

-17-

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25X1

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25X1

CIA IMAGERY ANALYSIS DIVISION

BRIDGE NO. 3

COORDINATES: 21 28N - 106 10E, XJ 216757

MAP REFERENCES: Series L 7014, Sheet 6251 IV

LOCATION: At west edge of Trai Nhi

LENGTH: 80' (approx.)

WIDTH: 10' (approx.)

TYPE: Deck

MATERIAL: Steel and Concrete

NO. OF SPANS: 3 probable

LENGTH OF EACH SPAN: 1 @ 40' (approx.)
2 @ 20' (approx.)

25X1

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FIGURE 12

-19-

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25X1

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CIA IMAGERY ANALYSIS DIVISION

BRIDGE NO. 4

COORDINATES: 21 30N - 106 07E, XJ 169790

MAP REFERENCES: Series L7014, Sheet 6252 III

LOCATION: 1.4 nm SE of Mo Trang

LENGTH: 195' (approx.)

WIDTH: (approx.)

TYPE: Deck

MATERIAL: Steel and Concrete

NO. OF SPANS: 3

LENGTH OF EACH SPAN: 65' (approx.)

25X1

25X1

-20-

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FIGURE 13

-21-

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25X1

CIA IMAGERY ANALYSIS DIVISION

BRIDGE NO. 5

COORDINATES: 21 32N - 106 05E, XJ 106824

MAP REFERENCES: Series L7014, Sheet 6252 III

LOCATION: 1.2 nm SE of Quinh Dong

LENGTH: 90' (approx.)

WIDTH: (approx.)

TYPE: Deck

MATERIAL: Steel and Concrete

NO. OF SPANS: 2

LENGTH OF EACH SPAN: 45' (approx.)

25X1

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25X1

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FIGURE 14

-23-

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703704 : CIA-

6140

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PIR 75070

25X1

CIA IMAGERY ANALYSIS DIVISION

BRIDGE NO. 6

COORDINATES: 21 33N - 106 02E, XJ 070843

MAP REFERENCES: Series L7014, Sheet 6252 III

LOCATION: 1.4 nm W. of Quinh Dong

LENGTH: 60' (approx.)

WIDTH: (approx.)

TYPE: Deck

MATERIAL: Steel and Concrete

NO. OF SPANS: 2

LENGTH OF EACH SPAN: 30' (approx.)

25X1

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25X1

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PIR 75070
FIGURE 15

25X

-25-

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3/04 : CIA-RD

25X

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PIR 75070

25X1

CIA IMAGERY ANALYSIS DIVISION

BRIDGE NO. 7

COORDINATES: 21 34N - 105 58E, XJ 018862

MAP REFERENCES: Series L7014, Sheet 6152 II

LOCATION: 0.6 nm W. of Cau Da

LENGTH: 30' (approx.)

WIDTH: (approx.)

25X1

TYPE: Deck

MATERIAL: Steel and Concrete

NO. OF SPANS: 1

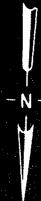
LENGTH OF EACH SPAN: 30' (approx.)

25X1

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PIR 75073
FIGURE 16



-27-

SECRET
03/04 : CIA-R

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CIA IMAGERY ANALYSIS DIVISION

PIR - 75070

25X1

BRIDGE NO. 8

COORDINATES: 21 34N - 105 54E, WJ 946851

MAP REFERENCES: Series L7014, Sheet 6152 II

LOCATION: 1.2 nm E. of Lang Lau

LENGTH: 75' (approx.)

WIDTH: (approx.)

TYPE: Deck

MATERIAL: Steel and Concrete

25X1

NO. OF SPANS: 1

LENGTH OF EACH SPAN: 75' (approx.)

25X1

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PIR 750725
FIGURE 17

-29-

SECRET

3/04 : CIA-RD

25X1

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PIR 75070

25X1

CIA IMAGERY ANALYSIS DIVISION

BRIDGE NO. 9

COORDINATES: 21 33N - 105 54E, WJ 928833

MAP REFERENCES: Series L7014, Sheet 6152 II

LOCATION: 1.2 nm S of Lang Lau

LENGTH: 240' (approx.)

WIDTH: (approx.)

25X1

TYPE: Deck

MATERIAL: Steel and Concrete

NO. OF SPANS: 6

LENGTH OF EACH SPAN: 40' (approx.)

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25X1

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PIR 75070
FIGURE 18

- 31 -

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PIR 75070

CIA IMAGERY ANALYSIS DIVISION

25X1

TUNNEL A

COORDINATES: 21 32N - 106 05E, XJ 136812

MAP REFERENCES: Series L7014, Sheet 6252 III

LOCATION: 0.9 nm W. of Mo Trang

LENGTH: 1250' (approx.)

ENTRANCE WIDTH: 20' (approx.)

25X1

- 32 -

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PIR 75070
FIGURE 19

-33-

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CIA IMAGERY ANALYSIS DIVISION

25X1

TUNNEL B

COORDINATES: 21 32N - 106 05E, XJ 126818

MAP REFERENCES: Series L7014, Sheet 6252 III

LOCATION: 0.9 nm NE of Quinh Lau

LENGTH: 275' (approx.)

ENTRANCE WIDTH: (approx.)

25X1

25X1

- 34 -

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PIR 75070
FIGURE 20

- 35 -

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PIR 75070

25X1

CIA IMAGERY ANALYSIS DIVISION

TUNNEL C

COORDINATES: 21 34N - 105 58E, XJ 016863

MAP REFERENCES: Series L/014, Sheet 6152 II

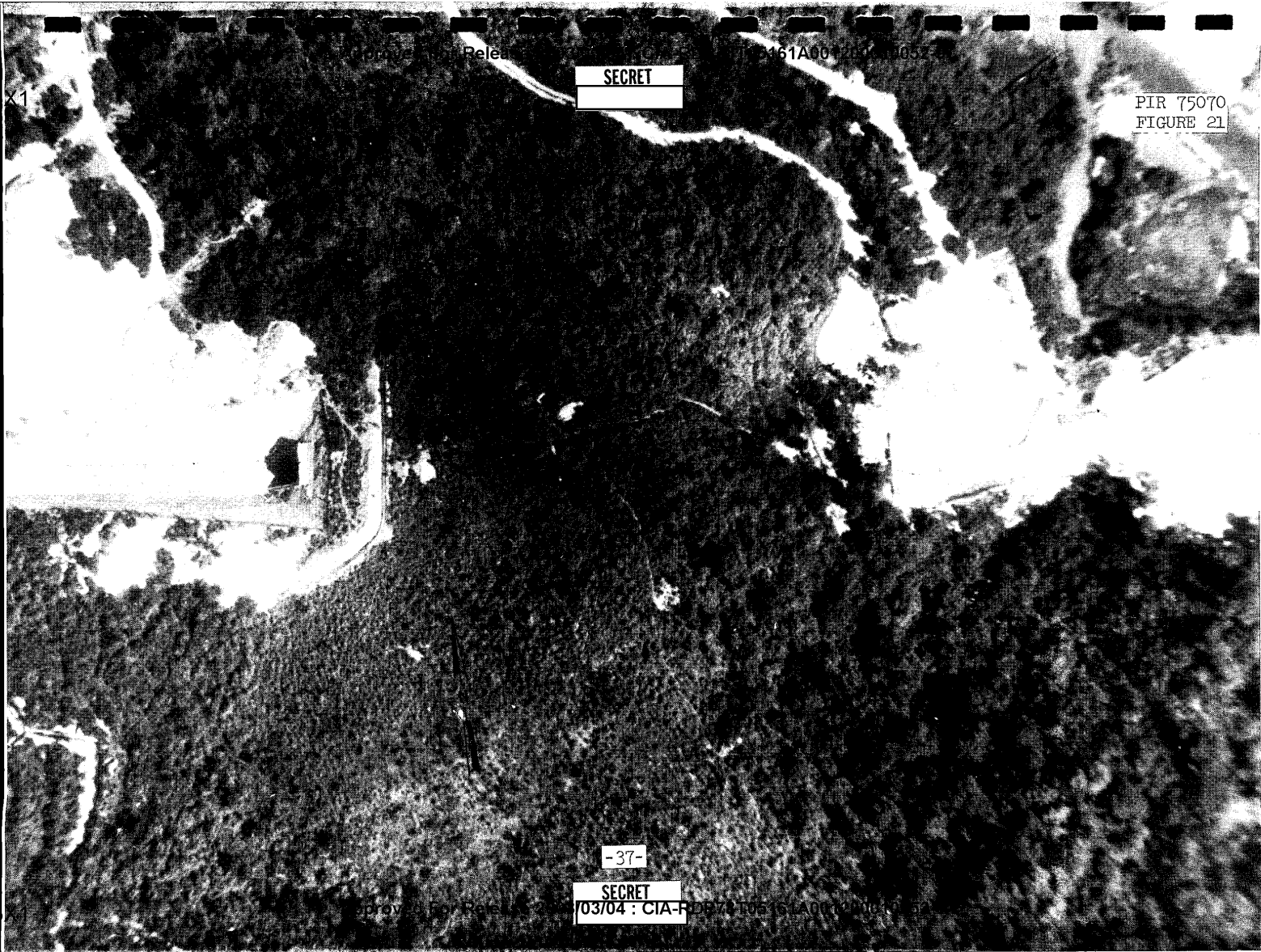
LOCATION: 2.3 nm SE of Trai Cau

LENGTH: 400' (approx.)

ENTRANCE WIDTH: 20' (approx.)

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25X1



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FIGURE 21

-37-

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PIR 75070

25X1

CIA IMAGERY ANALYSIS DIVISION

TUNNEL D

COORDINATES: 21 34N - 105 57E, WJ 987863

MAP REFERENCES: Series L7014, Sheet 6152 II

LOCATION: 2.1 nm N. of Na Chang

LENGTH: 900' (approx.)

ENTRANCE WIDTH: (approx.)

25X1

25X1

- 38 -

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PIR 75070
FIGURE 22



-39-

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03/04 : CIA-RL

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CIA IMAGERY ANALYSIS DIVISION

25X1

YARD NAME: Dong Kinh RR Yard

COORDINATES: 21 28N - 106 13E, XJ 263743

MAP REFERENCES: Series L7014, Sheet 6251 IV

LOCATION: 1.3 nm NW of Dong Kinh

LENGTH: Yard - 1500' (approx.)
Dead end spur 500' (approx.)

WIDTH: 4 tracks

CAPACITY: 125 cars (approx.)

25X1

-40-

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PIR 75070
FIGURE 23

-41-

SECRET

7/03/04 : CIA-RL

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PIR 75070

25X1

CIA IMAGERY ANALYSIS DIVISION

YARD NAME: Dong Vuong RR Yard

COORDINATES: 21 31N - 106 07E, XJ 162796

MAP REFERENCES: Series L7014, Sheet 6252 III

LOCATION: 1.2 nm NW of Dong Vuong

LENGTH: 1300' (approx.)

WIDTH: 3 tracks

CAPACITY: 95 cars (approx.)

25X1

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SECRET

PIR 75070
FIGURE 24

-43-

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03/04 : CIA-RDP

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PIR 75070

25X1

CIA IMAGERY ANALYSIS DIVISION

YARD NAME: Quinh Dong RR Yard

COORDINATES: 21 34N - 106 01E, XJ 057856

MAP REFERENCES: Series L7014, Sheet 6252 III

LOCATION: 2.1 nm W. of Quinh Dong

LENGTH: 1500' (approx.)

WIDTH: 3 tracks

CAPACITY: 95 cars (approx.)

25X1

-44-

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SECRET

PIR 75070
FIGURE 25



-45-

SECRET

/03/04 : CIA-RE

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PIR 75070

25X1

CIA IMAGERY ANALYSIS DIVISION

JUNCTION: Kep-Thai Nguyen Segment with Thai Nguyen Iron Ore Processing Plant Spur

The newly constructed rail line from Kep to its junction with the Thai Nguyen Iron Ore Processing Plant Spur at 21 34N - 105 56E (UTM WJ 972866) is standard gauge.

The spur line was originally meter gauge. Due to the quality of available photography its present gauge cannot be determined. A small rail yard is located immediately SE of the junction of the 2 lines:

YARD NAME: Na Chang RR Yard

COORDINATES: 21 34N - 105 56E, WJ 971866

MAP REFERENCES: Series L7014, 6152 II

DOCUMENTS: NPIC Briefing Board L-2334 (11/66)

LOCATION: 1.4 nm NW of Na Chang

LENGTH: 1500' (approx.)

WIDTH: 3 track

CAPACITY: 140 meter gauge cars (approx.), or 110 standard gauge cars (approx.). Gauge of yard cannot be determined due to quality of photography.

25X1

-46-

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PIR 75070
FIGURE 26

TO KEP

STANDARD GAUGE RAIL

TO THAI NGUYEN IRON ORE
PROCESSING PLANT

TO THAI NGUYEN

RAIL YARD

-47-

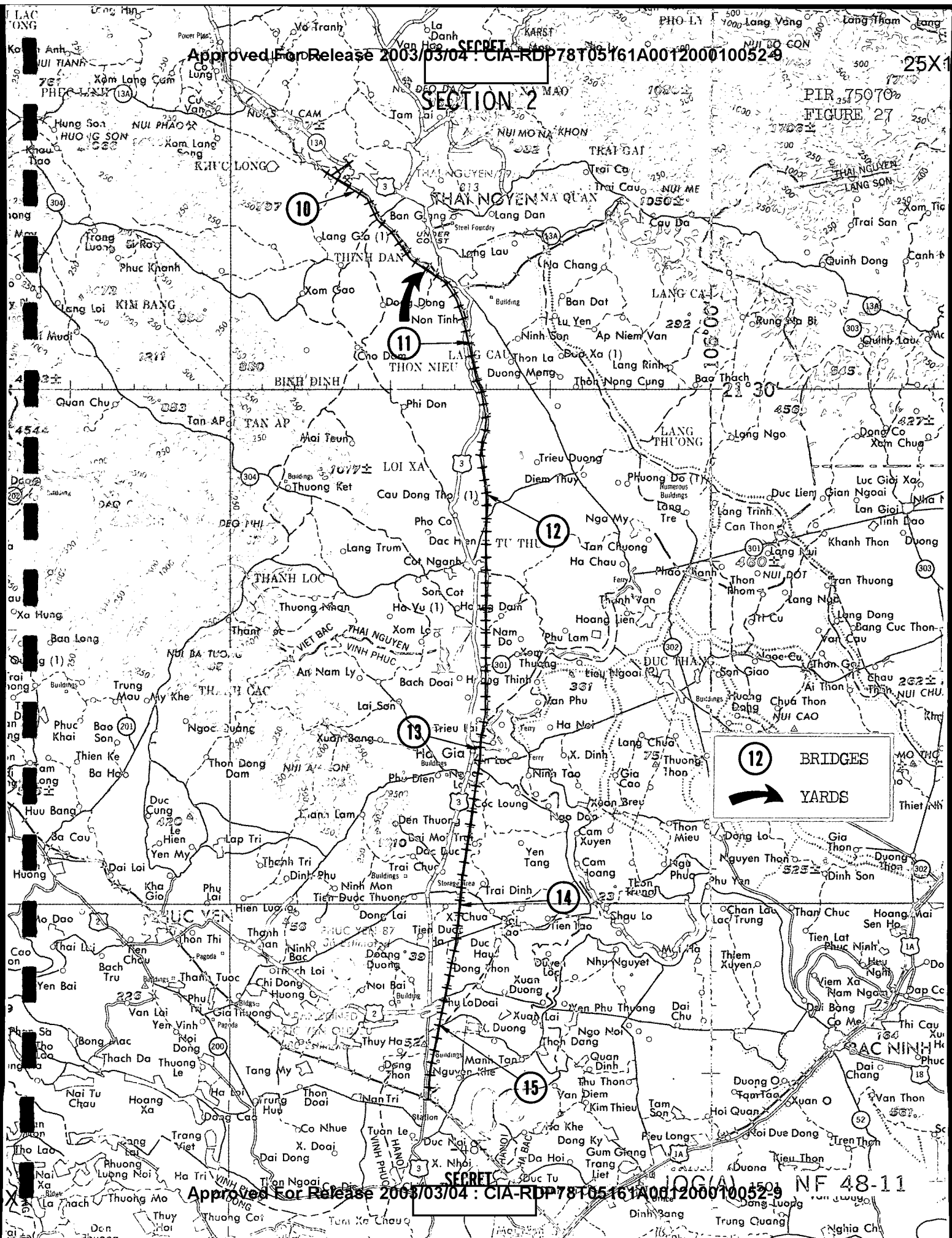
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SECRET

25X1

SECTION 2

PIR 75070
FIGURE 27



12 BRIDGES
YARDS

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NF 48-11

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PIR 75070

CIA IMAGERY ANALYSIS DIVISION

25X1

BRIDGE NO. 10

COORDINATES: 21 36N - 105 49E, WJ 847882

MAP REFERENCES: Series L7014, Sheet 6152 II

LOCATION: 1.5 nm E. of Thai Nyugen

LENGTH: 50' (approx.)

25X1

WIDTH: (approx.)

TYPE: Deck

MATERIAL: Steel and Concrete

NO. OF SPANS: 2

LENGTH OF EACH SPAN: 25' (approx.)

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25X1

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PIR 75070
FIGURE 28

25X1

- 50 -

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X1

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CIA IMAGERY ANALYSIS DIVISION

PIR 75070

25X1

BRIDGE NO. 11

COORDINATES: 21 31N - 105 52E, WJ 903802

MAP REFERENCES: Series L7014, Sheet 6152 II

LOCATION: 0.5 nm S. of Non Tinh

LENGTH: 100' (approx.)

WIDTH: (approx.)

25X1

TYPE: Deck

MATERIAL: Steel and concrete

NO. OF SPANS: 1

LENGTH OF EACH SPAN: 100' (approx.)

25X1

-51-

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PIR 75070
FIGURE 29

-52-

SECRET

/03/04 : CIA-R

A00120001

X1

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PIR 75070

25X1

CIA IMAGERY ANALYSIS DIVISION

BRIDGE NO. 12

COORDINATES: 21 27N - 105 53E, WJ 914723

MAP REFERENCES: Series L7014, Sheet 6151 I

LOCATION: 0.6 nm NE of Cau Dong Thon (1)

LENGTH: 70' (approx.)

WIDTH: approx.)

TYPE: Deck

25X1

MATERIAL: Steel and Concrete

NO. OF SPANS: 2

LENGTH OF EACH SPAN: 35' (approx.)

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25X1

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FIGURE 30

-54-

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25X1

SECRET

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CIA IMAGERY ANALYSIS DIVISION

25X1

BRIDGE NO. 13

COORDINATES: 21 19N - 105 52E, WJ 911583

MAP REFERENCES: Series L7014, Sheet 6151 I

LOCATION: 0.7 nm NE of Ha Gia

LENGTH: 270' (approx.)

WIDTH: (approx.)

TYPE: Deck

25X1 MATERIAL: Steel and Concrete

NO. OF SPANS: 3

LENGTH OF EACH SPAN: 90' (approx.)

25X1

-55-

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PIR 750725X1
FIGURE 31

-56-

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25X1

25X1

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CIA IMAGERY ANALYSIS DIVISION

BRIDGE NO. 14

COORDINATES: 21 15N - 105 52E, WJ 898502

MAP REFERENCES: Series L7014, Sheet 6151 I

LOCATION: 0.7 nm SW of Trai Dinh

LENGTH: 30' (approx.)

WIDTH: ☐ (approx.)

TYPE: Deck

MATERIAL: Steel and Concrete

NO. OF SPANS: 1

LENGTH OF EACH SPAN: 30' (approx.)

25X1

25X1

-57-

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Approved For Release 2003/03/04 : CIA-RDP78T05161A001200010052-9

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PIR 75070
FIGURE 32

25X1

-58-

SECRET

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25X1

SECRET

CIA IMAGERY ANALYSIS DIVISION

25X1

BRIDGE NO. 15

COORDINATES: 21 11N - 105 51E, WJ 892434

MAP REFERENCES: Series L7014, Sheet 6151 II

LOCATION: 0.1 nm S. of Phu Lo Doai

LENGTH: 225' (approx.)

WIDTH: [REDACTED] (approx.)

TYPE: Deck

MATERIAL: Steel and Concrete

NO. OF SPANS: 3

LENGTH OF EACH SPAN: 75' (approx.)

25X1

SECRET

25X1

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PIR 750725X
FIGURE 33

-60-

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25X1

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CIA IMAGERY ANALYSIS DIVISION

25X1

25X1

YARD NAME: Thai Nguyen Railroad Station, Yards, and Shops

BE:

COORDINATES: 21 33N - 105 51E, WJ 882842

MAP REFERENCES: Series L7014, Sheet 6152 II

LOCATION: 2 nm S of Thai Nguyen

LENGTH: 2100' (approx.)

WIDTH: 22 tracks (probable) including 2 dual gauge (i.e. meter and standard) tracks.

CAPACITY: 1430 meter gauge cars (approx.)

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25X1



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PIR 75070
FIGURE 34

YARD U/C

-62-

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25X1

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